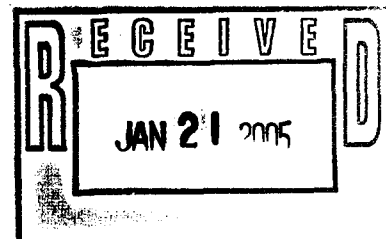




Mr. Steve Trent
Fluor Hanford Inc.
825 Jadwin Ave.
Richland, WA 99352



Subject: Contract No. 630
Analytical Data Package

Dear Mr. Trent:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0411L153
SDG #	H2833
SAF #	F03-006
Date Received	11-12-04
# Samples	1
Matrix	Soil
Volatiles	
Semivolatiles	
Pest/PCB	X
DRO/GRO/KRO	
Herbicides	X
GC Alcohol	
Metals	
Inorganics	

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,
Lionville Laboratory Incorporated


Orlette S. Johnson
Project Manager

Lionville Laboratory, Inc.
PEST/PCB ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F03-006 H2833

DATE RECEIVED: 11/12/04

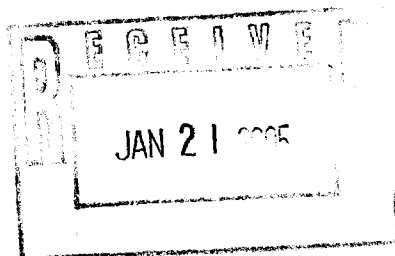
LVL LOT # :0411L153

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1B571	001	S	04LE1407	11/08/04	11/20/04	11/24/04
B1B571	001 MS	S	04LE1407	11/08/04	11/20/04	11/24/04
B1B571	001 MSD	S	04LE1407	11/08/04	11/20/04	11/24/04

LAB QC:

PBLKAY	MB1	S	04LE1407	N/A	11/20/04	11/24/04
PBLKAY	MB1 BS	S	04LE1407	N/A	11/20/04	11/24/04

SK, 1/7/05



000000002

000000001



Case Narrative

Client: TNU HANFORD F03-006
LVL#: 0411L153
SDG/SAF#: H2833/F03-006

W.O.#: 11343-606-001-9999-00
Date Received: 11-12-2004

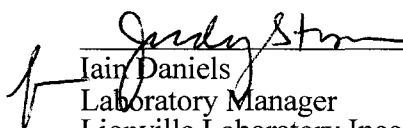
CHLORINATED PESTICIDES

One (1) soil sample was collected on 11-08-2004.

The sample and its associated QC samples were extracted on 11-20-2004 and analyzed according to Lionville Laboratory SOPs based on SW846, 3rd Edition procedures on 11-24-2004. The extraction procedure was based on method 3540C and the extracts were analyzed based on method 8081A.

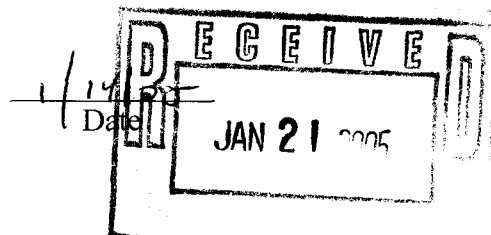
The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from a sample that met LvLI's sample acceptance policy.
2. The sample was extracted and analyzed within required holding time.
3. The sample and its associated QC samples received a Copper-Sulfur cleanup according to Lionville Laboratory SOPs based on SW846 method 3660A.
4. The method blank was below the reporting limits for all target compounds.
5. Seven (7) of ten (10) surrogate recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
6. Thirteen (13) of twenty (20) blank spike recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
7. Five (5) of thirty-eight (38) obtainable matrix spike recoveries were outside acceptance criteria. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
8. All initial calibrations associated with this data set were within acceptance criteria.
9. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
10. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.


Jaim Daniels
Laboratory Manager
Lionville Laboratory Incorporated

son\group\data\pest\tnu hanford\0411-153.pes

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 10 pages.



Lionville Laboratory Sample Discrepancy Report (SDR)

SDR # 0462649

Initiator: DR
Date: 12/13/04
Client: TNU

Batch: 0411453
Samples: SS, MS, MSD
Method: SWB46/MCAWW/CLP/

Parameter: PBT
Matrix: 12/13/04/120 SAL
Prep Batch: 0461409

1. Reason for SDR

a. COC Discrepancy ☐ Tech Profile Error ☐ Client Request ☐ Sampler Error on C-O-C
☐ Transcription Error ☐ Wrong Test Code ☐ Other _____

b. General Discrepancy

☐ Missing Sample/Extract ☐ Container Broken ☐ Wrong Sample Pulled ☐ Label ID's Illegible
☐ Hold Time Exceeded ☐ Insufficient Sample ☐ Preservation Wrong ☐ Received Past Hold
☐ Improper Bottle Type ☐ Not Amenable to Analysis

Note*: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

Several surrogates and spike recoveries outside of limits (high). All targets identified in samples less than RL. Further Action?

2. Known or Probable Causes(s)

3. Discussion and Proposed Action

Other Description: none

☐ Re-log
☐ Entire Batch
☐ Following Samples: _____
☐ Re-leach
☐ Re-extract
☐ Re-digest
☐ Revise EDD
☐ Change Test Code to _____
☐ Place On/Take Off Hold (circle)

4. Project Manager Instructions...signature/date: _____

☒ Concur with Proposed Action
☐ Disagree with Proposed Action; See Instruction
☐ Include in Case Narrative
☐ Client Contacted:
Date/Person _____
☐ Add
☐ Cancel

5. Final Action...signature/date: _____

Other Explanation:

☐ Verified re-[log][leach][extract][digest][analysis] (circle)
☒ Included in Case Narrative
☐ Hard Copy COC Revised
☐ Electronic COC Revised
☐ EDD Corrections Completed

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route Distribution of Completed SDR
☒ Initiator
☒ Lab General Manager: M. Taylor
☒ Project Mgr: Stone/Johnson/Haslett
☒ Technical Mgr: Wesson/Daniels
☒ QA (file): Alberts
☐ Data Management: Feldman
☐ Sample Prep: Beegle/Kiger

Route Distribution of Completed SDR
☐ Metals: Beegle
☐ Inorganic: Perrone
☒ GC/LC: Kiger
☐ MS: Rychlak/Layman
☐ Log-in: Melnic
☐ Admin: Soos
☐ Other: _____



GLOSSARY OF DATA

DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.
- .I** = Indicates an interference on one analytical column only. Result is reported from remaining analytical column.

ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- NS** = Not Spiked.
- SP** = Indicates Spiked Compound.
- P** = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- D** = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C** = This flag applies to a compound that has been confirmed by GC/MS.
- NPM** = No pattern match for multi-component target analytes.

00000005

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Pesticide/PCBs by GC, CLP List

RFW Batch Number: 0411L153

Client: TNUHANFORD F03-006 H2833 Work Order: 11343606001 Page: 1

[illegible]

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

22.10.03

Report Date: 12/14/04 01:15

Client: TNUHANFORD F03-006 H2833 Work Order: 11343606001 Page: 1

[illegible]

W. J. Hale

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

Client TNU - HANFORD SAF# F03-006

Est. Final Proj. Sampling Date

Project # 113N3 (0000-0019999.00)

Project Contact/Phone #

Lionville Laboratory Project Manager OS

QC Spec Del Std TAT 30 days

Date Rec'd 11-12-04 Date Due 12-5-04

MATRIX CODES:

S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum
DL - Drum
L - EP/TCLP
WI - Wipe
X - Other
F - Fish

Lab ID

Client ID/Description

Matrix QC Chosen (✓)

MS MSD

Matrix

Date Collected

Time Collected

Refrigerator #

#/Type Container

Liquid

Solid

Volume

Liquid

Solid

Preservatives

ANALYSES REQUESTED

ORGANIC

VOA

BNA

Pest/

Pest/

Herb

Metal

CN

Lionville Laboratory Use Only

Special Instructions:

DATE/REVISIONS:

11/15/04 1. Batch number is 0411L153

11/17/04 2. TAT = 30 days

3.

4.

5.

6.

Relinquished by

Received by

Date

Time

Relinquished by

Received by

Date

Time

Relinquished by

Received by

Date

Time

ORIGINAL
REWRITTEN"COMPOSITE
WASTE"

FLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F03-006-264		PAGE 1 OF 1		
COLLECTOR Pope/Pfister/Wiberg/Tyra <i>1 HUGUES</i>		COMPANY CONTACT LC Hulstrom		TELEPHONE NO. 373-3928		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 8N		
SAMPLING LOCATION 200-PW-2/216-S-7, 0.5-3 ft		PROJECT DESIGNATION 200-PW-2/200-PW-4 OU - Borehole Soil Sampling		SAF NO. F03-006		AIR QUALITY <input type="checkbox"/>		DATA TURNAROUND 45 Days / 45 Days		
ICE CHEST NO. <i>MRS 11/11/04</i> GRP-03-04 004		FIELD LOGBOOK NO. HNF-N-3361		COA 119153ES10		METHOD OF SHIPMENT Federal Express				
SHIPPED TO Lionville Laboratory Incorporated		OFFSITE PROPERTY NO. <i>SU PTR 14427</i>				BILL OF LADING/AIR BILL NO. <i>SU PTR 14427</i>				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool 4C	Cool 4C						
		TYPE OF CONTAINER	aG	aG						
		NO. OF CONTAINER(S)	1	1						
		VOLUME	120mL	120mL						
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B1B584	SAMPLE ANALYSIS	Pesticides - 8081;	Chloro-Herbicides - EPA8151;						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1B571	SOIL	11/8/04	1050	X	X								

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MO-020 Site Frigate</i>	<i>11-8-04 1200</i>	<i>MO-020 Site Frigate</i>	<i>11-8-04 1200</i>		
<i>MO-020 Site Frigate</i>	<i>11/11/04 1135</i>	<i>MO-020 Site Frigate</i>	<i>11/11/04 1135</i>		
<i>MO-020 Site Frigate</i>	<i>11/11/04 1136</i>	<i>MO-020 Site Frigate</i>	<i>11/11/04 1136</i>		
<i>MO-020 Site Frigate</i>	<i>11/12/04 1115</i>	<i>MO-020 Site Frigate</i>	<i>11/12/04 1115</i>		
<i>MO-020 Site Frigate</i>	<i>11/12/04 1115</i>	<i>MO-020 Site Frigate</i>	<i>11/12/04 1115</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

00000000

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20042079

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry													
W040002160	B1B584	GPP	12587-46-1	Gross alpha	SOIL	LA-508-421	U	-0.800	pCi/g	1.00	0.90	11/09/04	11/08/04 11/08/04
W040002160	B1B584	GPP	E,T,C	Alpha error by LC	SOIL	LA-508-421		+ - 2.2	pCi/g	1.00	0.0	11/09/04	11/08/04 11/08/04
W040002160	B1B584	GPP	12587-47-2	Gross beta	SOIL	LA-508-421		11.0	pCi/g	1.00	1.5	11/09/04	11/08/04 11/08/04
W040002160	B1B584	GPP	E,T,C	Beta error by LC	SOIL	LA-508-421		+ - 4.4	pCi/g	1.00	0.0	11/09/04	11/08/04 11/08/04

MDL=Minimum Detection Limit

RQ=Result Qualifier

U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

000000010

Lionville Laboratory Incorporated
SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU - HANFORD

Date: 11/12/04

Purchase Order / Project# /

SAF# SOW# / Release #: F03-006

LvLI Batch #:

0411L153

Sample Custodian:

J. Flumondy

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped

Carrier Fed Ex

Airbill# 7903-3558 3515

2. Custody seals on coolers or shipping container intact, signed and dated?

☒ Yes

☐ No

☐ No Seals

Comments

3. Outside of coolers or shipping containers are free from damage?

☒ Yes

☐ No

4. All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible?

☒ Yes

☐ No

5. Samples received cooled or ambient?

Temp 3-4 °C

Cooler # GRP-03 004

6. Custody seals on sample containers intact, signed and dated?

☐ Yes

☐ No

☐ No Seals

7. coc signed and dated?

☒ Yes

☐ No

8. Sample containers are intact?

☒ Yes

☐ No

9. All samples on coc received? All samples received on coc?

☒ Yes

☐ No

10. All sample label information matches coc?

☒ Yes

☐ No

11. Samples properly preserved?

☒ Yes

☐ No

12. Samples received within hold times? Short holds taken to wet lab?

☒ Yes

☐ No

13. VOA, TOC, TOX free of headspace?

☐ Yes

☐ No

☒ N/A

14. QC stickers placed on bottles designated by client?

☒ Yes

☐ No

☒ N/A

15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy)

☒ Yes

☐ No

16. Project Manager contacted concerning discrepancies? name/date (or samples outside criteria)

☐ Yes

☐ No

☒ No
Discrepancies

Lionville Laboratory, Inc.
HBGX ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F03-006 H2833

DATE RECEIVED: 11/12/04

LVL LOT # :0411L153

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1B571	001	S	04LE1424	11/08/04	11/22/04	12/04/04
B1B571	001 MS	S	04LE1424	11/08/04	11/22/04	12/04/04
B1B571	001 MSD	S	04LE1424	11/08/04	11/22/04	12/04/04

LAB QC:

PBLKBF	MB1	S	04LE1424	N/A	11/22/04	12/04/04
PBLKBF	MB1 BS	S	04LE1424	N/A	11/22/04	12/04/04

Handwritten signature/initials

00000012

~~00000001~~



Case Narrative

Client: TNU HANFORD F03-006
LVL#: 0411L153
SDG/SAF#: H2833/F03-006

W.O.#: 11343-606-001-9999-00
Date Received: 11-12-2004


HERBICIDE

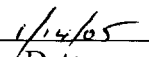
One (1) soil sample was collected on 11-08-2004.

The sample and its associated QC samples were extracted on 11-22-2004 and analyzed according to Lionville Laboratory SOPs based on SW846, 3rd Edition procedures on 12-04-2004. The extraction and analysis procedure was based on method 8151A.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from a sample that met LvLI's sample acceptance policy.
2. The sample was extracted and analyzed within required holding time.
3. The method blank was below the reporting limits for all target compounds.
4. All surrogate recoveries were within acceptance criteria.
5. All blank spike recoveries were within acceptance criteria.
6. All matrix spike recoveries were within acceptance criteria.
7. All initial calibrations associated with this data set were within acceptance criteria.
8. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated


Date

som\vr\group\data\herb\tnu\0411-153.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 8 pages.

000000002



GLOSSARY OF DATA

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- .I** = Indicates an interference on one analytical column only. Result is reported from remaining analytical column.

ABBREVIATIONS

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- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- NS** = Not Spiked.
- SP** = Indicates Spiked Compound.
- P** = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- D** = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C** = This flag applies to a compound that has been confirmed by GC/MS.
- NPM** = No pattern match for multi-component target analytes.

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Lionville Laboratory, Inc.

Herbicides, Special List

Report Date: 12/06/04 09:15

RFW Batch Number: 0411L153

Client: TNUHANFORD F03-006 H2833 Work Order: 11343606001 Page: 1

	Cust ID:	B1B571	B1B571	B1B571	PBLKBF	PBLKBF BS
Sample	RFW#:	001	001 MS	001 MSD	04LE1424-MB1	04LE1424-MB1
Information	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Surrogate:	DCAA	53 %	88 %	54 %	102 %	123 %
		-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----
Dalapon		180 U	75 %	62 %	170 U	69 %
Dicamba		70 U	72 %	50 %	67 U	61 %
Dichloroprop		180 U	56 %	62 %	170 U	78 %
2,4-D		35 U	54 %	52 %	33 U	77 %
2,4,5-TP (Silvex)		18 U	89 %	74 %	17 U	90 %
2,4,5-T		18 U	81 %	61 %	17 U	78 %
2,4-DB		180 U	105 %	54 %	170 U	85 %
Dinoseb		18 U	96 %	81 %	17 U	92 %

7/21/04

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

00000015

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

[illegible]

Special Instructions:

DATE/REVISIONS:

DATE/REVISIONS:
11/15/04 1. Batch number is 0411L153



11/17/04 2. TAT = 30 Days

3

4

5

6

Relinquished by	Received by	Date	Time
		11/12/04	1115

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL REWRITTEN		"COMPOSITE WASTE"	

0000070

FLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F03-006-264		PAGE 1 OF 1		
COLLECTOR Pope/Pfister/Wilberg/Tyra <i>1 HUGUES</i>		COMPANY CONTACT LC Hulstrom		TELEPHONE NO. 373-3928		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 8N		
SAMPLING LOCATION 200-PW-2/216-S-7, 0.5-3 ft		PROJECT DESIGNATION 200-PW-2/200-PW-4 OU - Borehole Soil Sampling		SAF NO. F03-006		AIR QUALITY <input type="checkbox"/>		DATA TURNAROUND 45 Days / 45 Days		
ICE CHEST NO. <i>GRP-03-04 004</i>		FIELD LOGBOOK NO. <i>HNF-N-3361</i>		COA 119153ES10		METHOD OF SHIPMENT Federal Express				
SHIPPED TO Lionville Laboratory Incorporated		OFFSITE PROPERTY NO. <i>SU PTR 14427</i>				BILL OF LADING/AIR BILL NO. <i>SU PTR 14427</i>				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool 4C	Cool 4C						
		TYPE OF CONTAINER	aG	aG						
		NO. OF CONTAINER(S)	1	1						
		VOLUME	120mL	120mL						
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B1B584	SAMPLE ANALYSIS	Pesticides - 8081;	Chloro-Herbicides - EPA8151;						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1B571	SOIL	11/8/04	1050	X	X								

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MD-020 Sipe</i>	<i>11-8-04 1200</i>	<i>MD-020 Sipe</i>	<i>11-8-04 1200</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MD-020 Sipe</i>	<i>11/11/04 1135</i>	<i>MD-020 Sipe</i>	<i>11/11/04 1135</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MD-020 Sipe</i>	<i>11/11/04 1135</i>	<i>MD-020 Sipe</i>	<i>11/11/04 1135</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MD-020 Sipe</i>	<i>11/12/04 1115</i>	<i>MD-020 Sipe</i>	<i>11/12/04 1115</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MD-020 Sipe</i>	<i>11/12/04 1115</i>	<i>MD-020 Sipe</i>	<i>11/12/04 1115</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>MD-020 Sipe</i>	<i>11/12/04 1115</i>	<i>MD-020 Sipe</i>	<i>11/12/04 1115</i>		

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20042079

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry													
W040002160	B1B584	GPP	12587-46-1	Gross alpha	SOIL	LA-508-421	U	-0.800	pCi/g	1.00	0.90	11/09/04	11/08/04 11/08/04
W040002160	B1B584	GPP	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 2.2	pCi/g	1.00	0.0	11/09/04	11/08/04 11/08/04
W040002160	B1B584	GPP	12587-47-2	Gross beta	SOIL	LA-508-421		11.0	pCi/g	1.00	1.5	11/09/04	11/08/04 11/08/04
W040002160	B1B584	GPP	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 4.4	pCi/g	1.00	0.0	11/09/04	11/08/04 11/08/04

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1
Groundwater Remediation Program

0000000100

Lionville Laboratory Incorporated
SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU-HANFORD

Date: 11/12/04

Purchase Order / Project# /
AF# / SOW# / Release #: F03-006

LvLI Batch #: 0411L153

Sample Custodian: T. Flumary

NOTE: EXPLAIN ALL DISCREPANCIES

- | | | | |
|---|---|--|----------|
| 1. Samples Hand Delivered or <u>Shipped</u> | Carrier <u>Fed Ex</u> | Airbill# <u>79033558 3515</u> | |
| 2. Custody seals on coolers or shipping container intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals | Comments |
| 3. Outside of coolers or shipping containers are free from damage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 4. All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 5. Samples received cooled or ambient? | Temp <u>3-4</u> °C | Cooler # <u>GRP-03 004</u> | |
| 6. Custody seals on sample containers intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals | |
| 7. coc signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 8. Sample containers are intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 9. All samples on coc received? All samples received on coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 10. All sample label information matches coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 11. Samples properly preserved? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 12. Samples received within hold times? Short holds taken to wet lab? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 13. VOA, TOC, TOX free of headspace? | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | |
| 14. QC stickers placed on bottles designated by client? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | |
| 15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 16. Project Manager contacted concerning discrepancies? name/date (or samples outside criteria) | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> No Discrepancies | |